

LXXXI. *A Continuation of the Account of the Weather in Madeira. By Dr. Thomas Heberden. Communicated by Dr. W. Heberden, F. R. S.*

Read May
30, 1754.

Madeira, Anno 1751.

	Barometer.				Thermometer.			
	M.	H.	L. H.		M.	H.	G.H.	L.H.
January	29.775	30.1	29.45		64.354	69	62	
February	29.896	30.1	29.5		64.553	68	60	
March	30.002	30.1	29.7		64.967	70	63	
April	29.97	30.1	29.85		65.01	68	63	
May	29.827	30.05	29.6		66.822	70	63	
June	30	30.05	29.8	L. W.	70.833	76	68	
July	29.973	30.05	29.9		74.161	77	72	
August	29.942	30.05	29.9		75.709	78	72	
September	29.931	30	29.8		74.916	78	73	
October	29.86	30.05	29.4		72.774	76	68	
November	29.813	30.1	9.6		68.533	72	65	
December	29.807	30.1	29.3		63.725	71	62	

Anno 1752.								
January	29.788	30.1	29.55		65.254	68	62	
February	29.866	30.15	29.7		63.071	66	60	
March	30.026	30.2	29.75		66.032	68	63	
April	22.844	30.05	29.45		65.683	68	64	
May	29.987	30.15	29.8		66.37	69	64	
June	29.966	30.1	29.7		70.58	74	67	
July	29.999	30.1	29.9		72.962	75	70	
August	30.002	30.05	29.9		73.86	76	73	
September	30.022	30.1	29.9	L. W.	76.538	80	74	
October	29.807	30.1	29.7		73.08	78	69	
November	29.51	30.05	29.75	L. W.	68.3	73	64	
December	30.05	30.15	29.7		66.354	70	64	

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Madeira,

Madeira, *Anno* 1753.

	Barometer			Thermometer.			
	M.	H.	G. H.	L. H.	M.	H.	G. H. L. H.
January	29.904	30.15	29.6		63.129	66	61
February	29.933	30.15	29.6		65.946	70	61
March	29.943	30.15	29.5		66.967	69	64
April	29.921	30.1	29.7		65.316	68	63
May	29.896	30	29.8		66.709	69	65
June	29.988	30.05	29.8		69.6	72	68

Collecting the respective sums of the daily heights of the instruments throughout the year, and extracting the mean altitude, I find,

The mean altitude of the barometer for each day, is 29.915 inches.

Of the thermometer, 68°.918.

The 'greatest barometrical variation, during 'four years and four months, has been 9 tenths of an inch, *viz.* from 29.3 to 30.2. For altho' in April 1751. the mercury stood at 29.1, I find, by a note in my diary, that some air having insinuated itself into the tube, I judg'd the mercury to stand 3 tenths of an inch lower than it ought.

The greatest thermometrical variation, during the said time, has been 20°; *viz.* from 60° to 80°: But it may be observ'd, I never knew it rise so high but once; occasion'd by a very strong léste or levant wind; the extreme height, without such an accident, being never more than 78°.

N. B. It may be necessary to advise, that my observations are made in the city of Funchal.

The

The quantity of rain, which has fallen in the island of Madeira.

<i>Anno</i>	1751.	1752.	1753.
	Inch. Dec.Pts.	Inch. Dec.Pts.	Inch. Dec.Pts.
January	5.614	11.452	5.374
February	.867	4.496	2.912
March	— —	.189	4.679
April	.011	2.479	1.604
May	1.59	.399	.038
June	.022	.860	.284
July	— —	.221	.019
August	— —	— —	— —
September	3.176	.03	1.37
October	1.707	9.897	2.352
November	3.509	5.37	1.967
December	10.483	.308	2.974
	26.979	38.701	23.573

The quantity of rain, which has fallen the last seven years, from 1747. to 1753. inclusive, amounts to 214.346 inches.

Therefore the mean quantity for each year is 30.62 +.

The mean quantity of water for each day of the said seven years .083 +.

The number of days it rain'd in the said seven years . . . 462

The mean quantity of water for each of the days it rain'd 503 +.

An account of the number of days, on which it rained, and of the greatest quantity of water, which fell in any one day of the respective month; in inches and decimal parts.

Anno	1747.	1748.	1749.	1750.	1751.	1752.	1753.
	Quantity of water.	Quantity of water.	Quantity of water.	Quantity of water.	Quantity of water.	Quantity of water.	Quantity of water.
	Days.	Days.	Days.	Days.	Days.	Days.	Days.
January	17	8	6	15	12	14	16
February	2	13	3	8	7	10	5
March	16	8	3	6	—	2	8
April	2	6	2	1	2	6	5
May	3	—	11	5	5	2	1
June	3	1	1	2	1	5	3
July	1	—	—	1	—	1	1
August	2	3	—	1	—	—	—
September	4	1	4	6	3	1	8
October	1	7	12	13	9	16	10
November	9	4	7	10	11	13	4
December	3	2	14	6	15	3	10
Total N of days	63	53	63	74	65	73	71